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COMSATCOM Center Update

August 2011

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Purpose

- **To provide an overview of DISA Commercial Satellite Communications (COMSATCOM) Center (NSK) functions and activities**

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Agenda

- **COMSATCOM Overview**
  - **Mission**
  - **Organization**
  - **Future COMSATCOM Services Acquisition (FCSA)**
- **Division Review**
  - **Acquisition Services Division (ASD)/NSK3**
  - **Commercial Satellite Services Division (CSD)/NSK2**
  - **Enhanced Mobile Satellite Services (EMSS) Div/NSK1**

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COMSATCOM Center Mission

Japan Tsunami Crisis

Alaskan F-22 Recovery Mission

Deployed Forces

Deliver *operationally responsive, customer-focused, and cost-effective* COMSATCOM services that enable the Joint Warfighter success

Network Services (NS) Realignment

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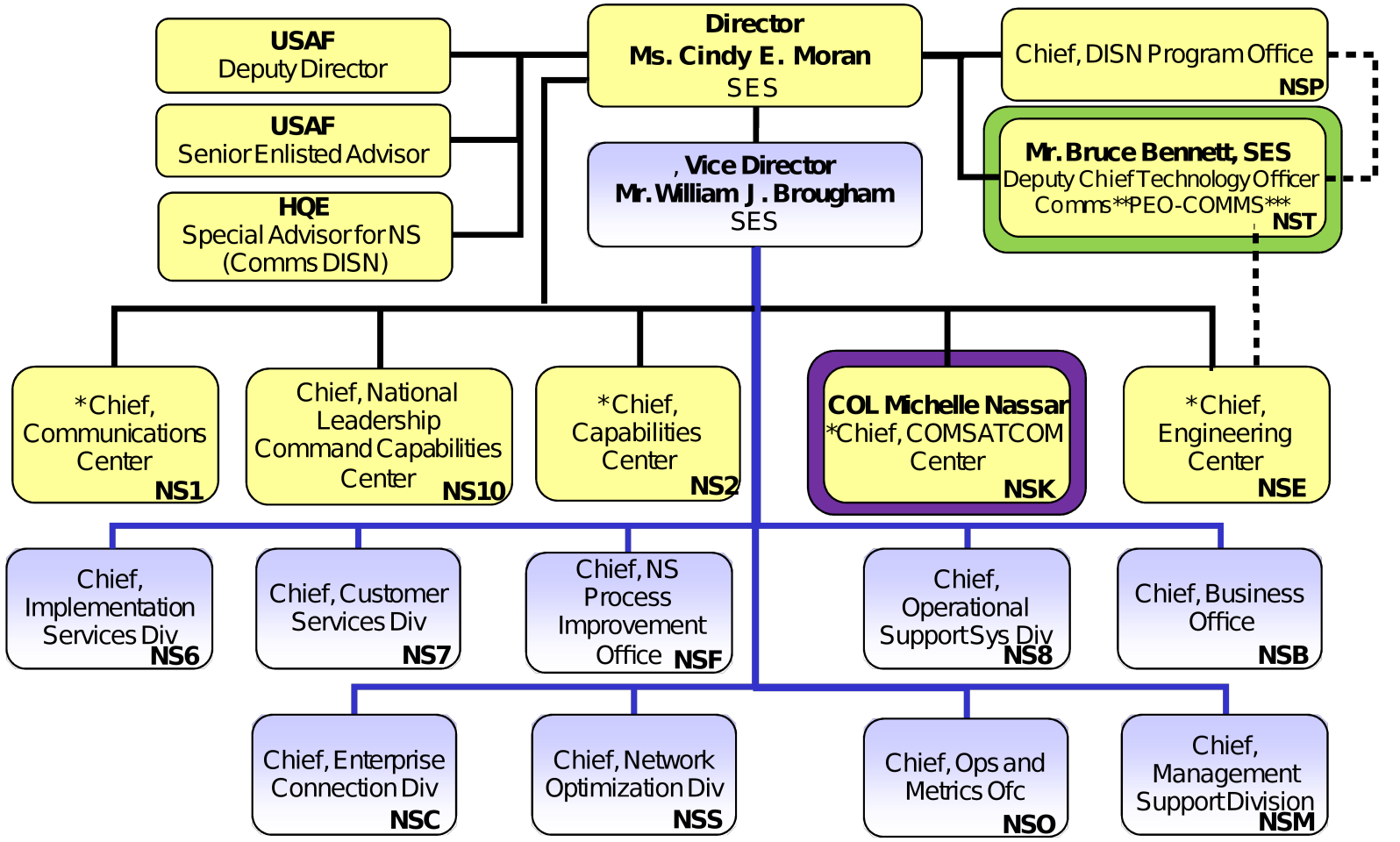

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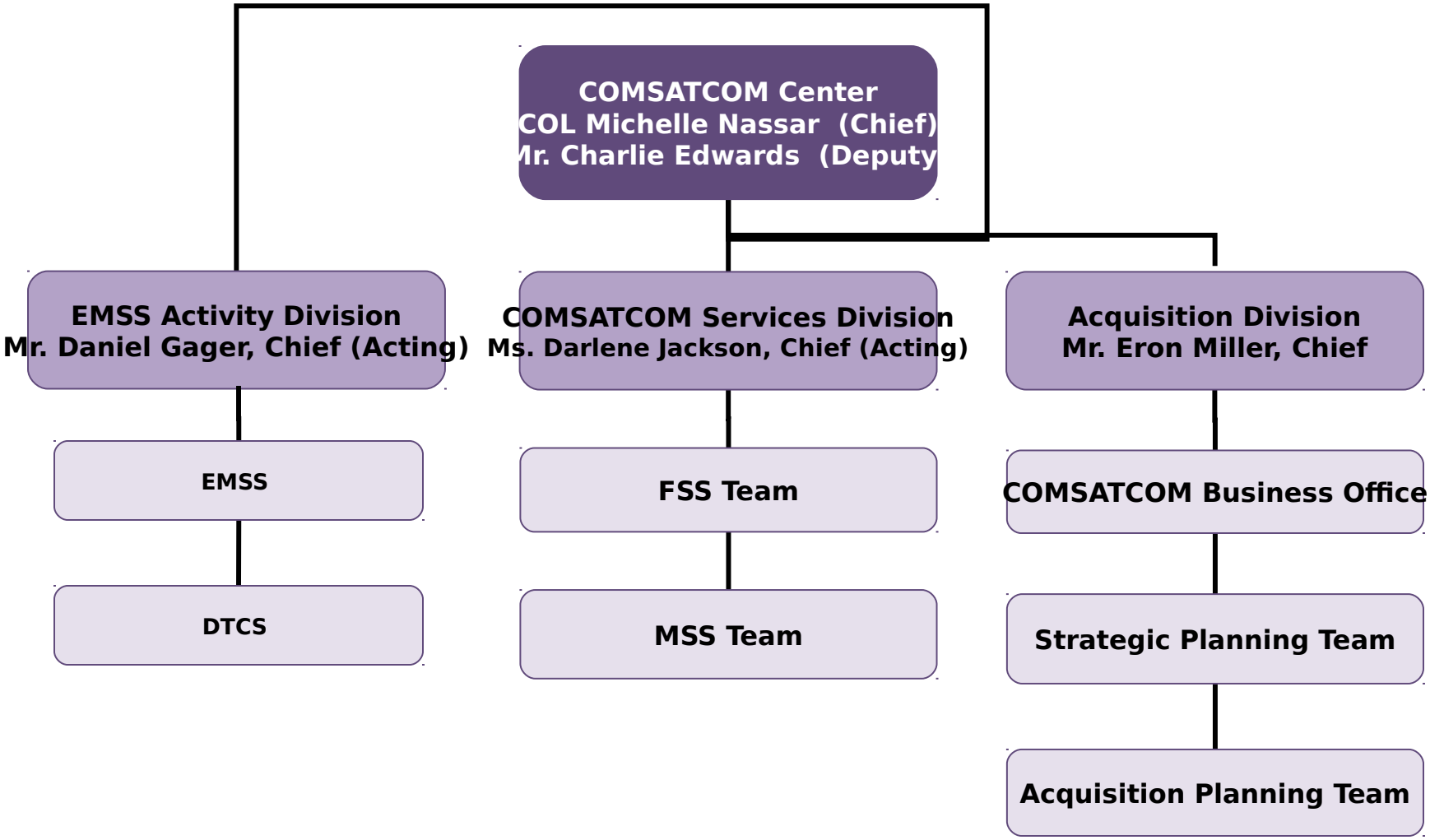
COMSATCOM Center Organizational Structure



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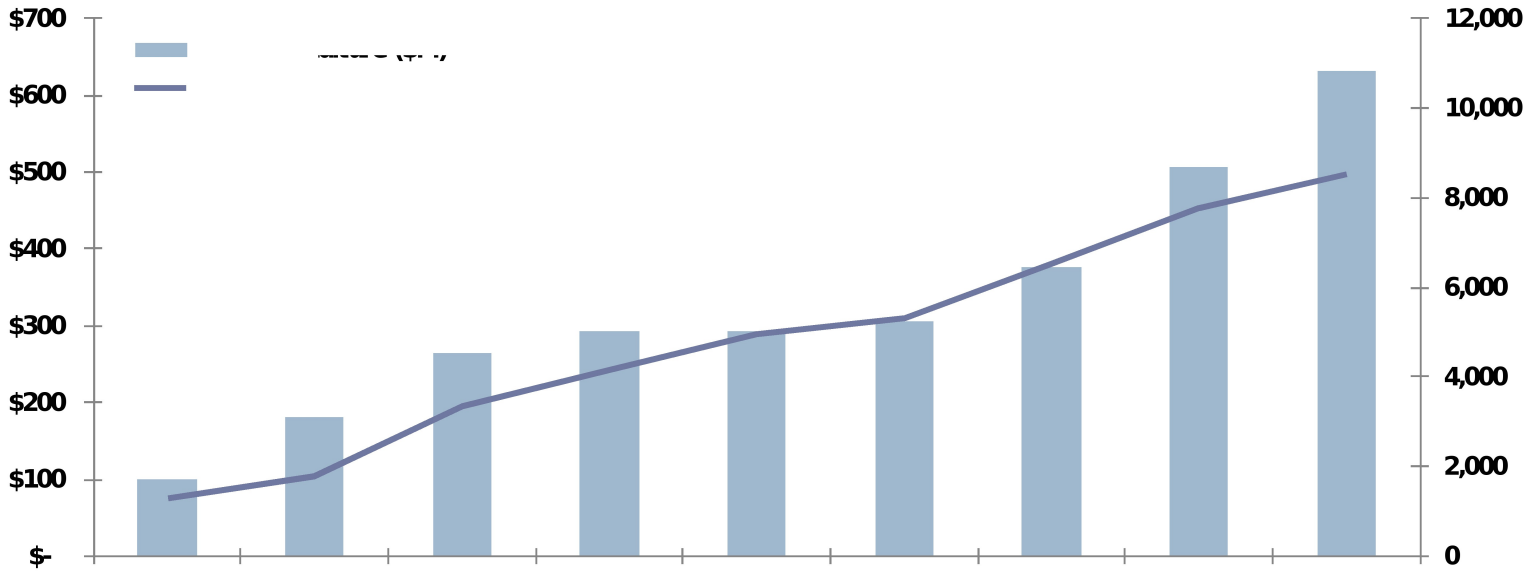
FY09 Annual Report Quick Look

FSS Usage and Expenditures (FY01-09)

- FY2009 expenditures and usage reached ~8.5GHz and over $630M
  - Bandwidth usage increased 9.8% from FY 2008 to 2009
  - Expenditures increased 24.7%[1] from FY2008 to 2009



(1) ~$105M worth of expenditures did not have corresponding bandwidth usage data, which caused the % increase unbalance between bandwidth and expenditures

Growth in expenditures has exceeded growth in capacity, indicating tighter market conditions

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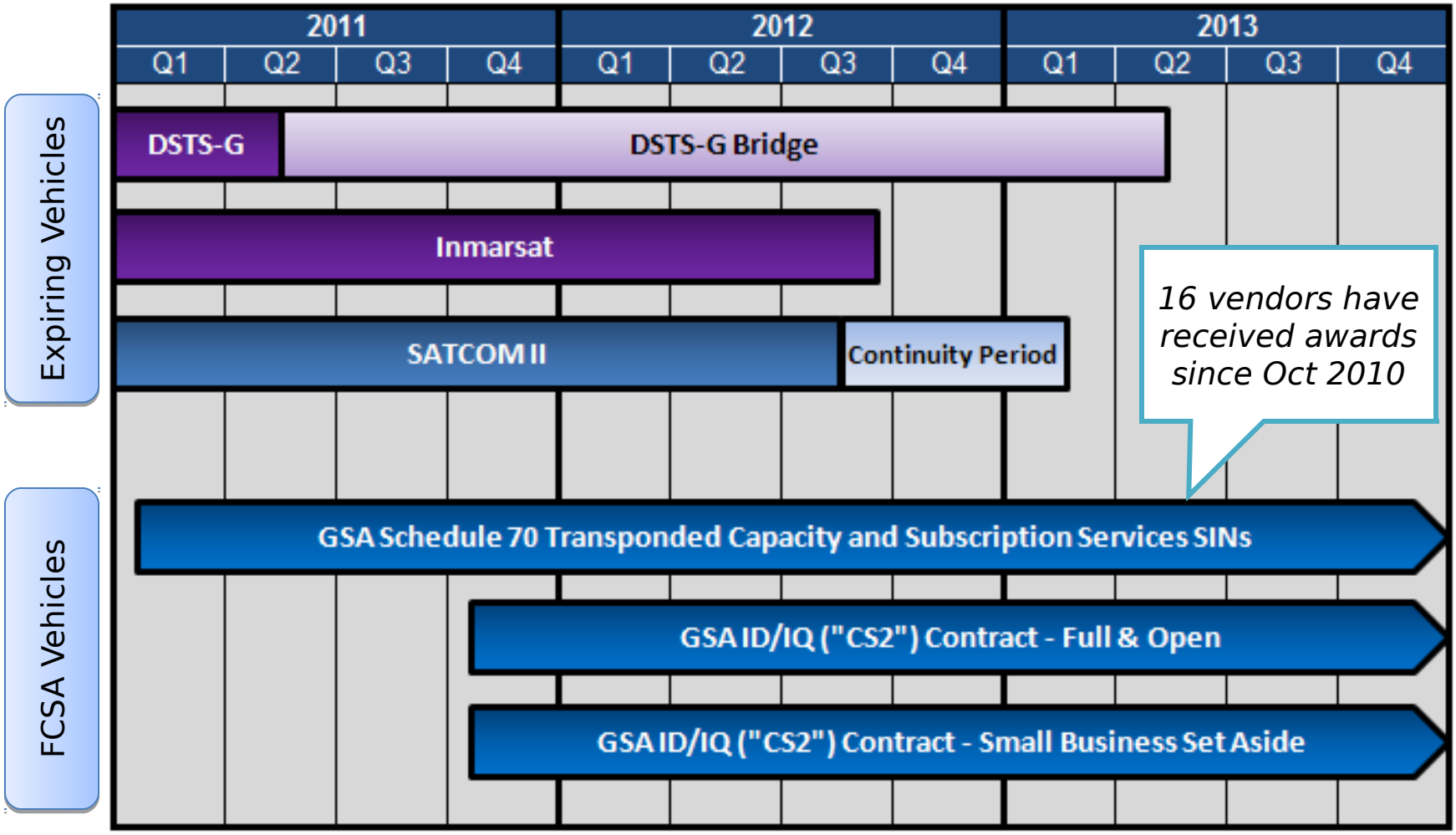
FCSA Overall Transition



Future COMSATCOM Services Acquisition (FCSA)

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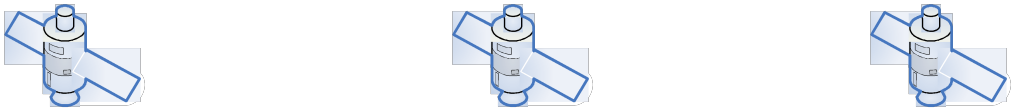
Service Areas and Contract Vehicles

Contract Mechanism

TRANSPONDED CAPACITY



Multiple Award Schedule 70 SIN 132-54

"Plug-in" SUBSCRIPTION SERVICES
($/month, $/minute, $/MB)

Vendor-defined architecture and subscription rates

Multiple Award Schedule 70 SIN 132-55

Custom (END-TO-END) SATCOM SOLUTIONS ("CS2")

Customer- defined architecture (standards, components, and interfaces)

Multiple Award ID/IQ Contracts

Sixteen Schedule 70 COMSATCOM SIN Vendors offer COMSATCOM services on Schedule 70 SIN 132-54 and 132-55 (as of July 2011)

Projected (best case) ID/IQ Availability: 4QFY11

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FCSA Schedule 70 Vendors

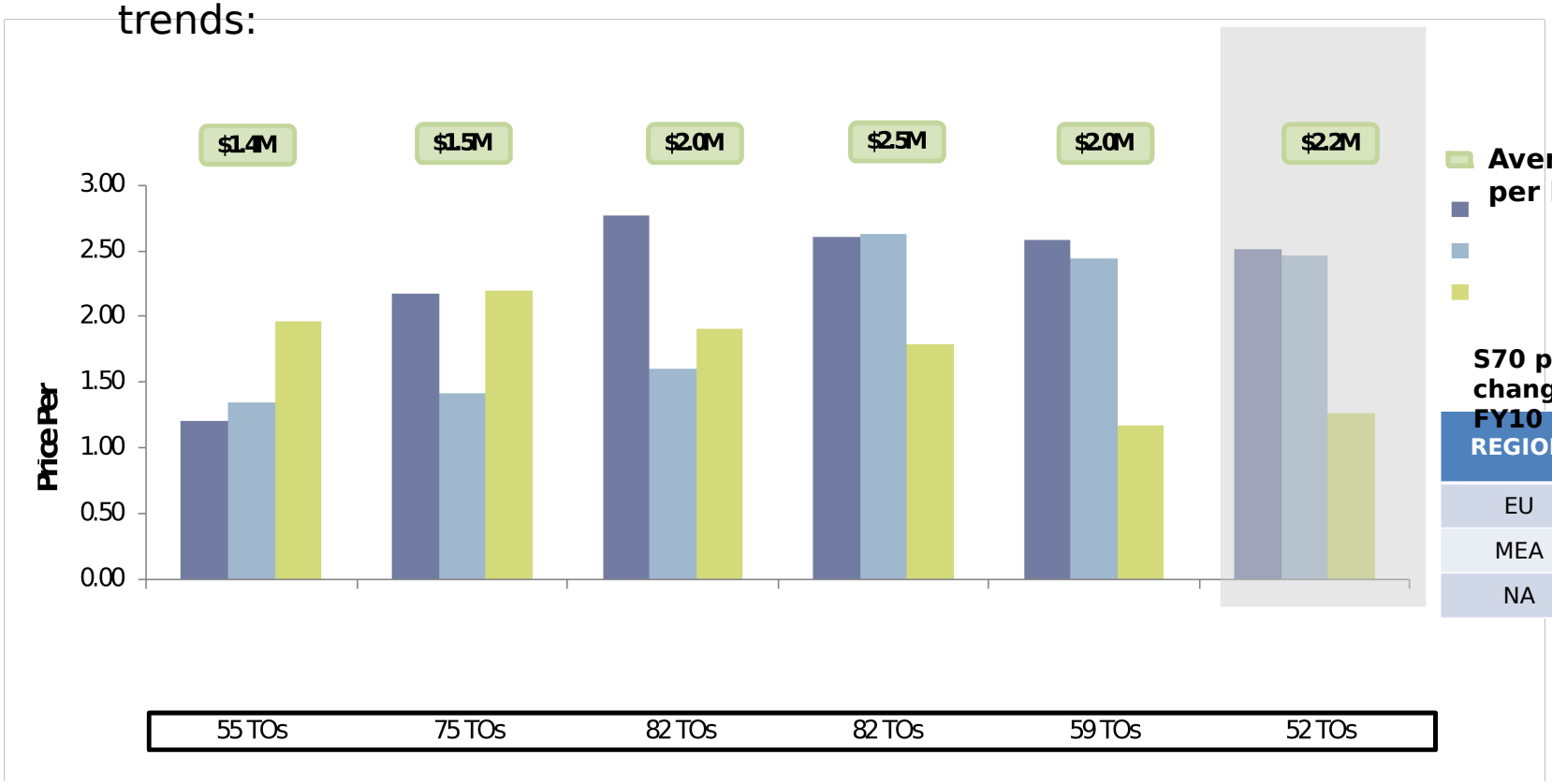
As Of 10 AUG 2011

Vendor	SIN 132-54 Transponded Capacity	SIN 132-55 Subscription Services
ADCI		X
Artel	X	X
Americom Government Services	X	X
CapRock	X	X
DRS Defense Solutions	X	X
Globecomm	X	X
Hughes Network Systems	X	X
Intelsat General	X	X
MTN Government Services	X	X
MVS USA		X
SATCOM Direct		X
Segovia	X	X
Spacenet		X
Stratos		X
TCS	X	X
Vizada		X
TOTAL: 16	**10**	**16**

Bandwidth Cost Trends

Summary Statistics

- Average increase over FY10 DSTS-G: **~8%**
  - Comparison of S70 average $/TPE against DSTS-G TOs awarded in FY10
  - TO mix is important (see regional breakdown below)
- Among recompetes only, the average increase over FY10 DSTS-G: **~2%**
- On a regional basis, S70 compares very favorably with recent DSTS-G price trends:



S70 percent change from FY10 DSTS-G

REGION	%CHANGE
EU	- 2.8%
MEA	0.9%
NA	7.7%

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Acquisition Services Division (ASD)/NSK3

Mr. Eron Miller

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Transition (Recompete)

- **Expiring Contracts**
  - **DISA DSTS-G Contract***
  - **GSA SATCOM II**
  - **Inmarsat**
- **All services must be transitioned before the contracts end**
  - **Requirements must be validated**
  - **Acquisition Packages must be created**
  - **Satellite Database (SDB) Number must be obtained**
  - **Information Assurance review must be completed**

*Bridge contract established to provide continuity of service. Contract ceiling meant for limited period of use and work transition to FCSA contract as soon as possible

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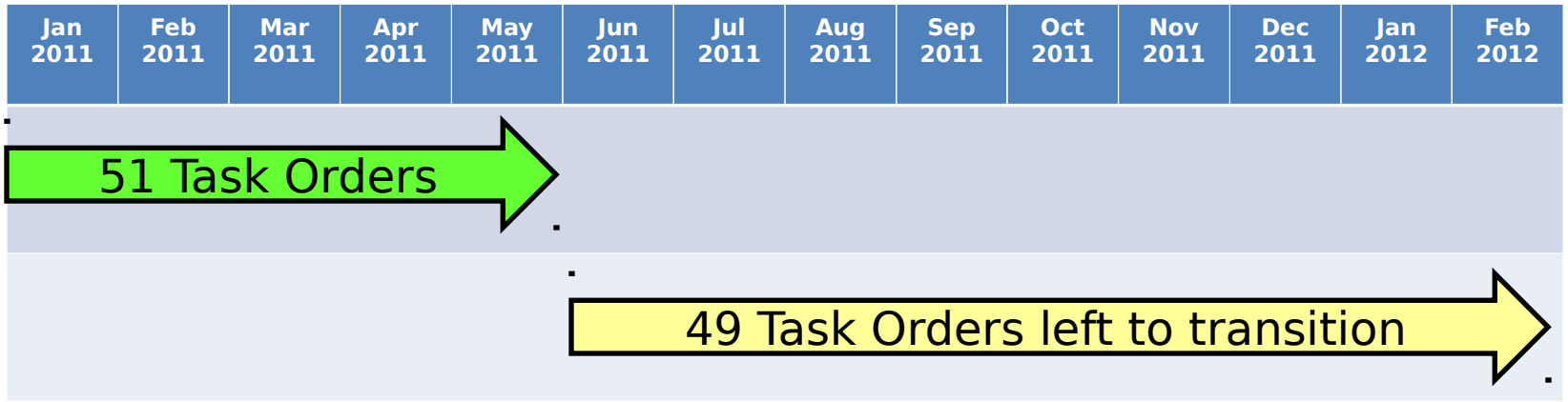
FSS Transition



- Transition Factors
  - Process takes longer than we (COMSATCOM Center and customers) thought it would (e.g., funding changed from PDC to MIPR)
  - Customer identifying a solution (vice a requirement) restricts competition
  - Many older requirements were awarded without IA evaluation – mandated requirement now being implemented
  - Funding and requirements may have separate (parallel)

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Inmarsat (MSS) Requirements

- Commercial Inmarsat Services:
  - Voice /FAX/Data/Static IP as core services
  - No Monthly Recurring Cost (MRC) for BGAN services
  - Information Assurance (potentially up to MAC I)
  - Net Ready (Interoperability)
  - Network Monitoring and Usage & Fault Reporting
  - BGAN Subscriber Identity Module (SIM) Card Transfer
  - Customer Service Support (24x7)
  - Service Activation Plan & Transition Support
  - Single vendor required for privatized/closed user group networks
  - Single vendor to support full range of services

- Recompete Requirements:
  - Current Inmarsat contract expires in June 2012
  - ~ 8,000 Inmarsat Customer Service Authorization (CSA) must be competed on FCSA
  - Transition for each CSA requires two steps (potential for ~16,000 contract actions)
    - Discontinue prior service
    - Activate new service

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MSS Transition Strategy

- Award eight Single Blanket Purchase Agreements (BPA):
  - Inmarsat BGAN
  - Legacy Service requirements
  - Aero Communication requirements
- Award one Multiple BPA to Support Shared Corporate Allowance Plan (SCAP) Offerings
  - Pre-paid service similar to phone calling card
  - Purchased for duration or service required
  - Use or lose

Strategy based upon input from Service MSS Representatives

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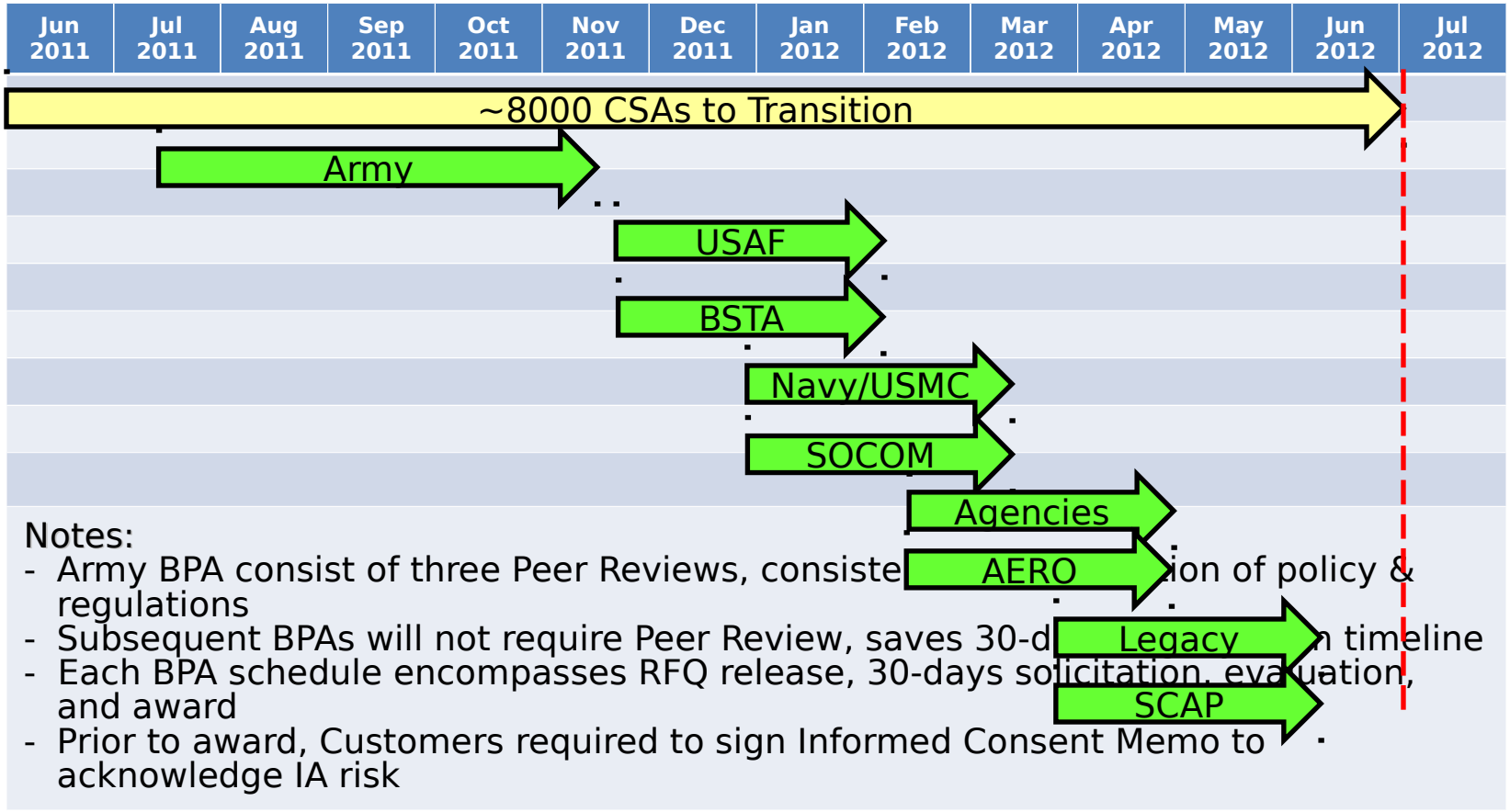
Notional BPA Schedule



Notes:

- Army BPA consist of three Peer Reviews, consiste ion of policy & regulations
- Subsequent BPAs will not require Peer Review, saves 30-d n timeline
- Each BPA schedule encompasses RFQ release, 30-days solicitation, evaluation, and award
- Prior to award, Customers required to sign Informed Consent Memo to acknowledge IA risk

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Challenges

- MSS Transition
  - Highly customer dependent*
  - Many CSAs still require validation for re-award
  - 30 days required for vendor responses
  - IA requirements evaluated for first time
- FSS Transition
  - New process for funding (PDC replaced by MIPR)
  - Time required to develop acquisition packages
  - 30 days required for vendor responses
  - Informed Consent Memo from customer
  - Customer desire to stay with current solution

* Customers must re-validate, certify funding, and submit CSAs for re-compete (requirements approval, financial approval, and Service Rep approval)

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Commercial Satellite Services Division (CSD)/NSK2

Mr. Ben Camerlin

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COMSATCOM Services Division (CSD)

- **Acquires COMSATCOM solutions for DoD**
  - Leads technical evaluation of vendor proposals
  - Ensures vendor meets lease requirements
  - Performs an Information Assurance (IA) Risk Assessment for all proposals
  - Reviews all vendor reports and assists Warfighters in recovery of funds when contractual obligations are not fulfilled
- **Implementing FCSA transition**
- **Provides engineering support to users for design and deployment of COMSATCOM service**
  - Mission Planning
  - COMSATCOM Capabilities Awareness
  - Network Utilization and Optimization
  - Host Nation Approvals
- **Synchronizes the GSSC, RSSC, vendors and users to resolve operational issues**

DISA COMSATCOM Global Support

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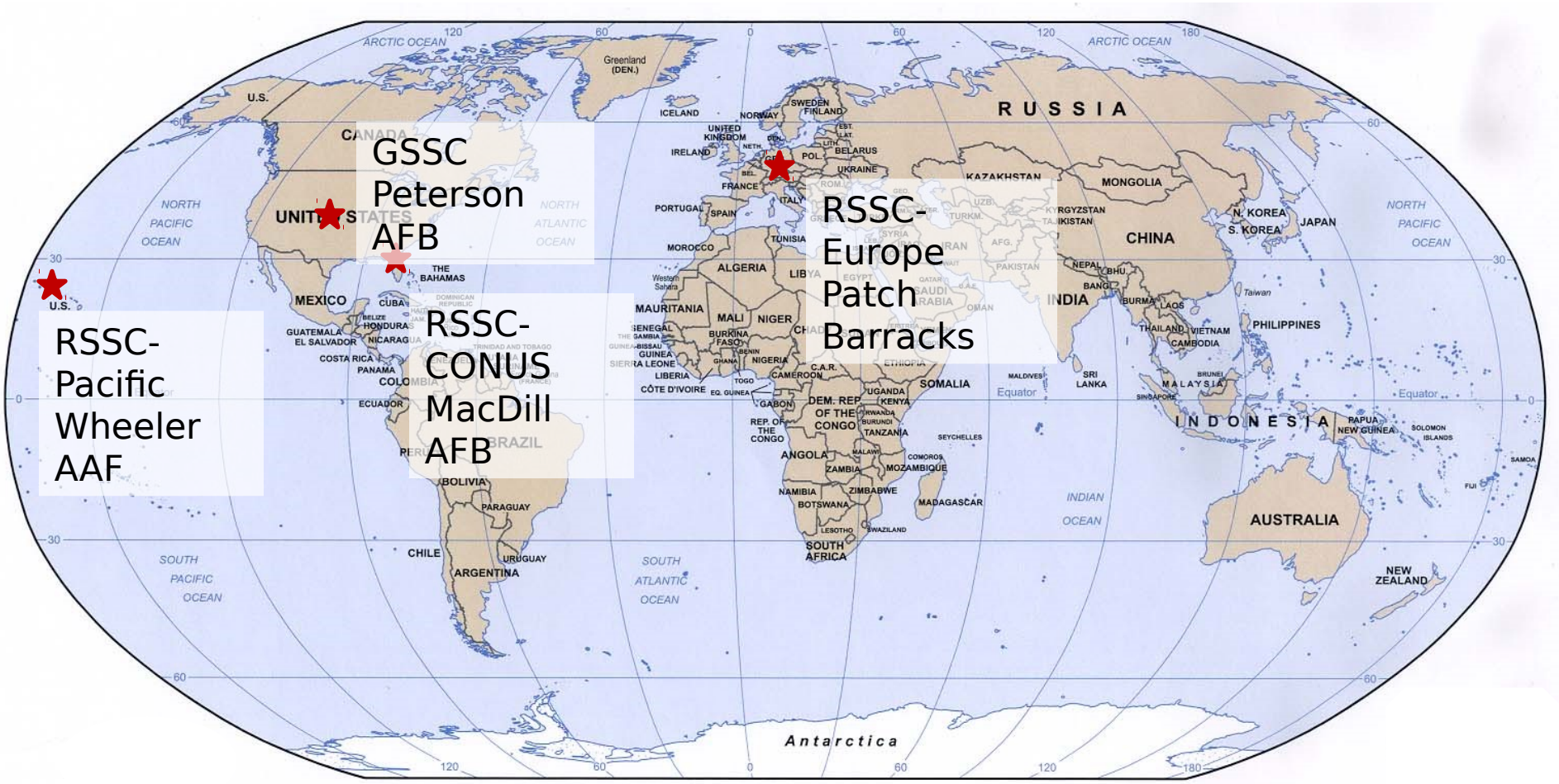

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CSD: Warfighter Support

- **Regional SATCOM Support Centers (RSSCs)**
  - RSSC Pacific: PACOM
  - RSSC CONUS: CENTCOM, JFCOM, SOCOM, SOUTHCOM
  - RSSC Europe: EUCOM and AFRICOM
- **Global SATCOM Support Center (GSSC)**
  - Supports NORTHCOM/NORAD, TRANSCOM, STRATCOM, Joint Chiefs of Staff
  - Supports DoD, White House Communications Agency, Defense Agencies, National Users, and other "approved" users not assigned to an RSSC
- **Customer Acquisition Manager (CAMs)**
  - Provides 24/7 customer support in development and submission of new requirements or changes for existing service
  - Provides crisis response/support to DoD and National contingencies and emergencies

Designated CAM assigned to each COCOM

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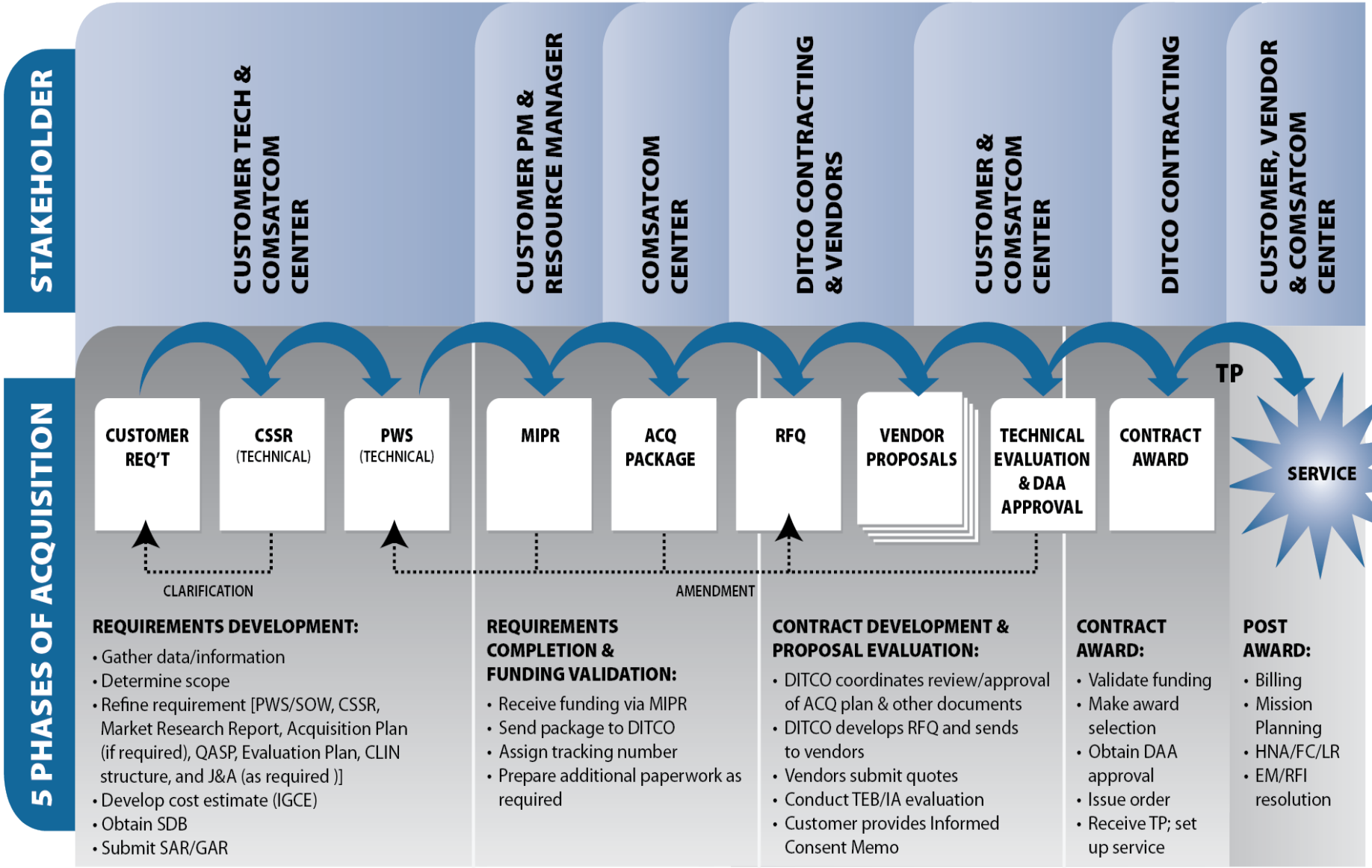
MIPR-based COMSATCOM Acquisition Process



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Fixed Satellite Services (FSS) Awarded Contracts

- Currently over 8.2 GHz of COMSATCOM Bandwidth on contract.
  - ~ 90% Ku-Band
- FCSA Schedule 70 – 52 contracts awarded as of June 24, 2011
  - 51 contracts awarded on SIN 132-54 Transponded Capacity
    - 45 Active, 6 Expired
  - 1 contract awarded on SIN 132-55 Subscription Services
- 49 active DSTS-G Task Orders that will be competed on FCSA at the end of current period of performance
  - 29 Transponded Capacity requirements will be competed on 132-54
  - 20 will be competed on FCSA CS2 or CS2-SB ID/IQ Contracts when available

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Enhanced Mobile Satellite Services (EMSS) Div/NSK1

Mr. Dan Gager

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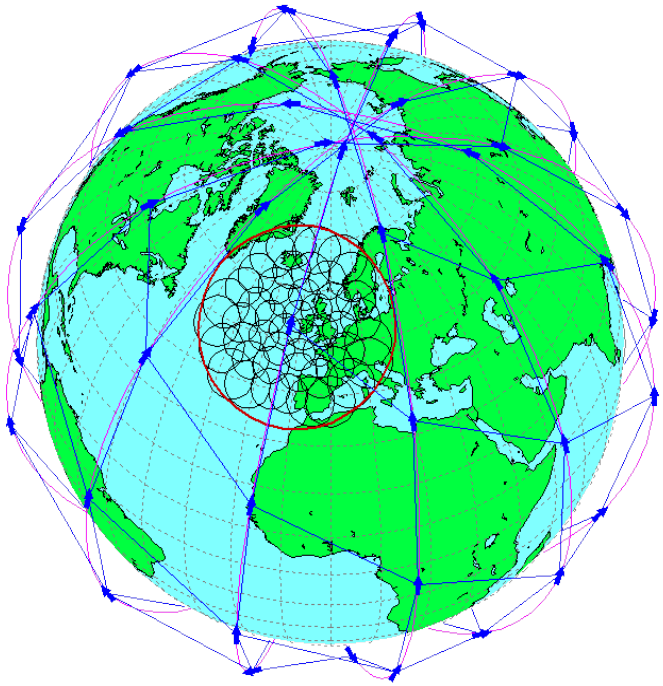
Enhanced MSS (EMSS) Workload FY11

- Enhanced Mobile Satellite Services (EMSS) for the deployed Warfighter and Partnering Agencies are provided through the DISA Iridium contract

- Avg Daily EMSS Traffic Profile (2011 to date)
  - Number of ISUs Lit Up: 1,644
  - High Priority/Special Number of Voice Calls: 21,185
  - Voice Minutes: 168,331 (35,001,000 YTD)
  - Number of Data Calls: 14,236
  - Data Minutes: 58,210
  - SBD Transactions: 137,214
  - Number of Pages: 848
  - Number of SMS messages: 728

- EMSS Capabilities
  - Secure global handheld communications
  - High Priority/Special Needs Users
  - End-to-end encryption (NSA TYPE-1)
  - Voice/Data/Messaging/Paging
  - Protection of user information
  - Allow/Deny/Prioritize DoD gateway user access



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Iridium 9505A Handset

- The Iridium 9505A satellite phone provides global voice and data services

- Specifications
  - Weight: 13.2 oz (375 g)
  - Dimensions: 6.2 L x 2.4 W x 2.2 D inches (158 L x 62 W x 59 D mm)
  - Battery Life: 3.6 hours continuous talk time (high capacity battery)
    30 hours continuous standby time (high cap battery)
  - Capable of TS Secure Calls (With ISM)

NOT A PER MINUTE RATE PLAN

- Cost for FY12 (includes DISA/DITCO fees)
  - $170.46 per month (UNLIMITED MINUTES)
  - $ 73.47 per month (Gateway Fee*)

  Total Per Month: $243.93 per month UNLIMITED MINUTES

EMSS Gateway

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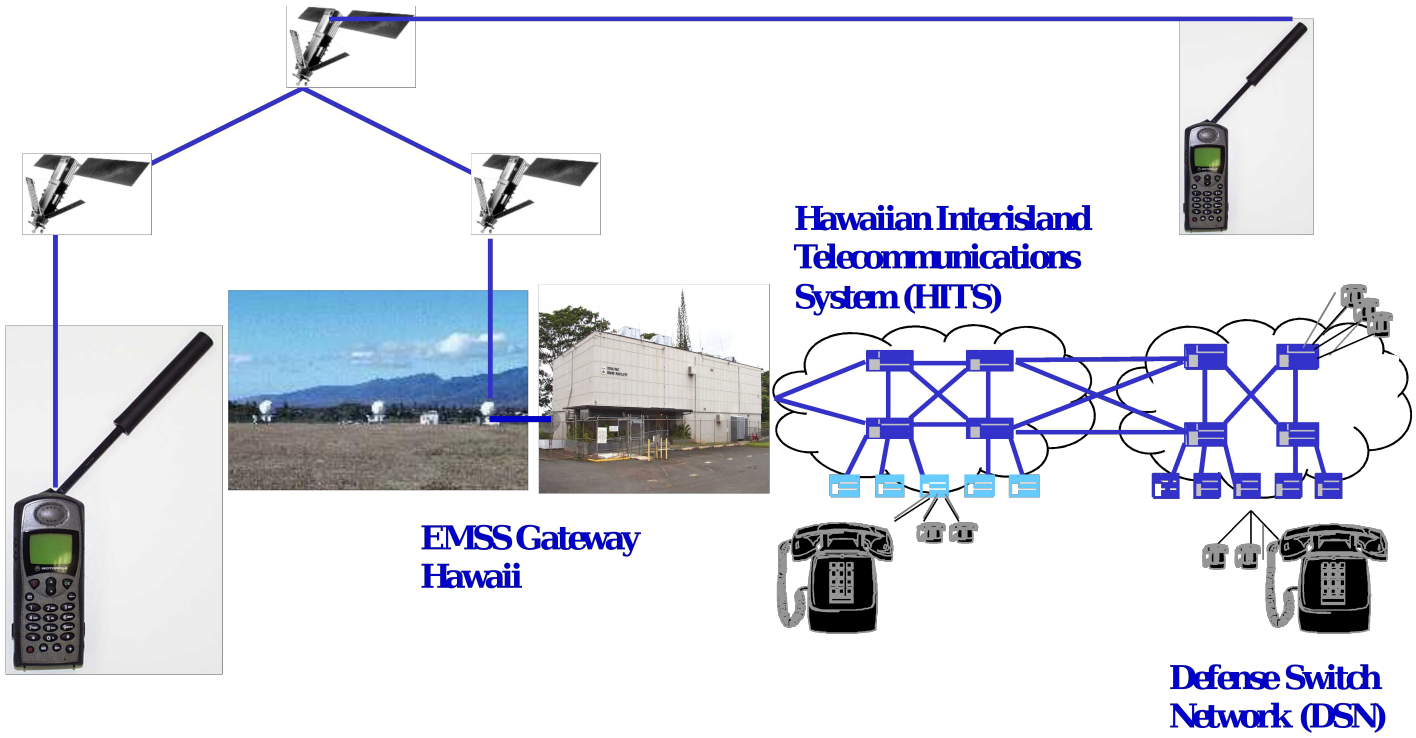
- Providing DSN reach back for deployed users through the Hawaii EMSS Gateway
- Currently 50,555 active devices on the EMSS Gateway
  - Handsets: 29,799
  - Pagers: 1,664
  - DTCS Radios: 6,300
  - SBD-only devices: 12, 812



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Distributed Tactical Communications System (DTCS)

- DTCS is a satellite-based C2-on-the-move system developed under JUON CC-368
  - Supports teams operating in remote, austere locations
- Utilizes the Iridium Constellation
  - Beyond Line of Sight (BLOS)/Over-the-Horizon (OTH)
  - Operates in mountainous, deep valley terrain, and remote regions
- Push-to-Talk (PTT)
  - EMSS handset call set up ~ 13 seconds
  - DTCS PTT ~ 2 seconds
- Multicast
  - EMSS handset is point-to-point
  - DTCS operates like a tactical radio
    - Single talker, multiple listeners
- Position/Location Information
  - Feeds DTCS C2 handset (in development) and COP

* Radio Only Version

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DTCS Background & Status

- Joint Urgent Operational Need (JUON) 368 resulted from Warfighter need submitted by CENTCOM
  - Requirement endorsed by Net Centric FCB & validated by Joint Staff
  - Joint Rapid Acquisition Cell (JRAC) requested DISA take leadership of JUON CC-0368 on 16 Oct 09
    - DTCS was initially developed by NSWC Dahlgren
    - Office of the Secretary of Defense (OSD) asked DISA to take lead on DTCS
- The DTCS effort in DISA can be divided into three parts:
  - RDT&E
  - Bulk Equipment Purchase/Procurement
  - Sustainment

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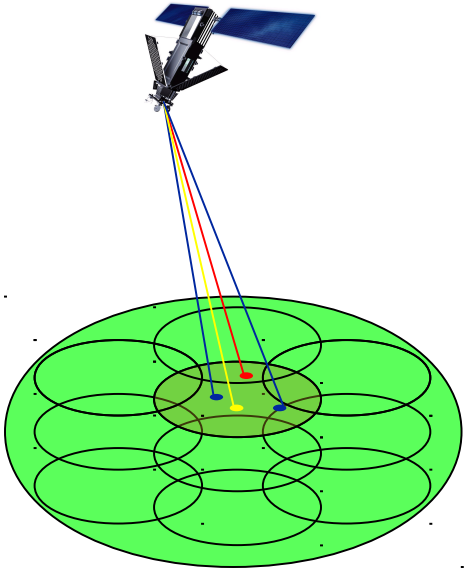
DTCS Evolution

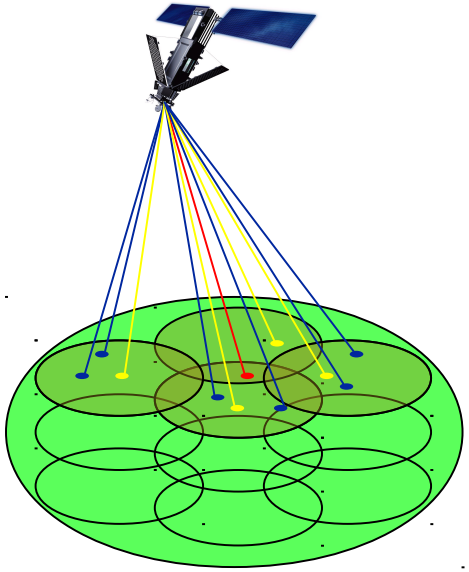
Phase I
Single Spotbeam
Range: 100 miles

Completed



Phase II
Multiple Spotbeams
Range: 250 miles

In Limited Evaluation



DTCS radio has three channels:

Control Channel (listen) — Traffic Channel (Talker) — Traffic Channel

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EMSS/DTCS Way-Ahead

- **EMSS**
  - Expand/upgrade products/services ordering process through DDOE
- **DTCS**
  - Develop and deploy upgrades
    - To the Radio Only (RO) handset based on user feedback (e.g. tones)
    - To the Field Application Tool (FAT) to provide sophisticated mission planning and mission analysis capabilities
    - Platform integration kits for different vehicle platforms
    - Net Manager upgrades to support system management and accessibility
    - Net Manager Web Portal upgrades to improve user interface and respond to user feedback
  - Execute design and development of Phase III DTCS system, including system architecture and development of satellite software upgrades, new ground system hardware and software
  - Execute transition and interoperability strategy for Phase II/Phase III

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Summary

- The COMSATCOM Center is committed to deliver operationally responsive and customer-focused COMSATCOM services that enable the Joint Warfighter's success

Recognized as DoD's Provider of Choice for Commercial Satellite Services

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FCSA Overview

- **GSA Schedule 70 Special Item Number (SIN)132-54,Transponded Capacity**
  - Transponded Capacity: Dedicated bandwidth and power on a communications satellite in any available COMSATCOM frequency band
  - Host Nation Agreements (HNAs) will be priced separately when required
- **GSA Schedule 70 SIN 132-55, Subscription Services**
  - Subscription Services: Pre-existing, pre-engineered FSS and/or MSS solutions in any available COMSATCOM frequency band, typically including shared or dedicated satellite resources, ancillary terrestrial components, and Contractor specified networks and equipment
- **Future: GSA ID/IQ Full & Open (F&O) CS2, End-to-End Solutions: for large-scale requirements ($2.6B ceiling)**
- **Future: GSA ID/IQ Small Business CS2, End-to-End Solutions: for remaining requirements ($900M ceiling)**
  - Projected award 4QFY11